

FEATURES source WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
Location/Qualifiers
1..31.
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
BASE COUNT 5 a 10 c 8 g 7 t 1 others
ORIGIN

Query Match Score 30.6; DB 6; Length 31;
Best Local Similarity 96.8%; Pred. No. 7.3e+04;
Matches 30; Conservative 1; Mismatches 0;
Indels 0; Gaps 0;

QY 329 GGGACAAGCTGCGTCGCGCCTTGACCAT 359
Db 1 GGGACAAGCTGCGTCGCGCCTTGACCAT 31

RESULT 4
AY078814S1 linear PRI 21-DEC-2002
LOCUS CD209L1 protein
DEFINITION Hylobates syndactylus isolate B1533 putative CD209L1 protein
QY 1229 GACCCGACAGCGTAAACCA 1250
Db 22 GACCCGACAGCGTAAACCA 1

RESULT 2
AX248014 linear PAT 28-SEP-2001
LOCUS Sequence 93 from Patent WO0166800.
DEFINITION Hylobates syndactylus (siamang)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
KEYWORDS Mammalia; Eutheria; Primates; Catarrhini; Hylobatidae; Hylobates.
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 Cargill, M., Ireland, J.S. and Lander, E.S.
AUTHORS Patent: WO 0166800-A 93 13-SEP-2001;
TITLE Human single nucleotide polymorphisms
JOURNAL NATURE
FEATURES source WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
Location/Qualifiers
1..31.
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
BASE COUNT 6 a 8 c 9 g 7 t 1 others
ORIGIN

Query Match Score 30.6; DB 6; Length 31;
Best Local Similarity 96.8%; Pred. No. 7.3e+04;
Matches 30; Conservative 1; Mismatches 0;
Indels 0; Gaps 0;

QY 973 GGTCACTGGCGATGCCATTGACGTTCAC 1003
Db 1 GGTCACTGGCGATGCCATTGACGTTCAC 31

RESULT 3
AX418163/c linear PAT 18-JUN-2002
LOCUS Sequence 16 from Patent WO020220.
DEFINITION Cmp-5 (collapsin response-mediator protein) encoding nucleic acid,
polypeptide and uses thereof
ACCESSION AX418163
VERSION GI:21523373
KEYWORDS synthetic construct
SOURCE artificial construct
ORGANISM

REFERENCE 1 Lennon, V.A., Kryzer, T.J. and Griesmann, G.E.
TITLE Cmp-5 (collapsin response-mediator protein) encoding nucleic acid,
polypeptide and uses thereof
JOURNAL Patent: WO 020220-A 16 10-JAN-2002;
MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH (US)
FEATURES source Location/Qualifiers
1..22.
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
/note="Oligonucleotide for PCR"

BASE COUNT 2 a 4 c 8 g 8 t
ORIGIN

Query Match 1.3%; Score 22; DB 6; Length 22;
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Matches 22; Conservative 0; Mismatches 0;
Indels 0; Gaps 0;

QY 1229 GACCCGACAGCGTAAACCA 1250
Db 22 GACCCGACAGCGTAAACCA 1

RESULT 4
AY078814S1 linear PRI 21-DEC-2002
LOCUS CD209L1 protein
DEFINITION Hylobates syndactylus isolate B1533 putative CD209L1 protein
QY 1229 GACCCGACAGCGTAAACCA 1250
Db 22 GACCCGACAGCGTAAACCA 1

RESULT 5
AY078857S1 linear PRI 21-DEC-2002
LOCUS Pan troglodytes isolate B1437 putative CD209L1 protein (CD209L1)
DEFINITION gene, exon 1.
ACCESSION AY078857
VERSION GI:27356847
KEYWORDS

1 of 7
Pan troglodytes (chimpanzee)
ORGANISM Pan troglodytes
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Catarrhini; Hominidae; Pan.
Mammalia; Eutheria; Primates; Pan.

Banveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and Carrington,M.	Best Local Similarity 73.7%; Pred. No. 5.1e+06; Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0
JOURNAL Novel Member of the CD209 (DC-SIGN) Gene Family in Primates J. Virol. 77 (1), 217-227 (2003)	Qy 252 ATGATTCCTCCAAAGAACCAAGGGGCCCTGGCTGG 289 Db 1 ATGAGTGACTCCAAAGAACCAAGACTGAGCAGCTGG 38
PUBLMED 1.2477827	
REFERENCE 2 (bases 1 to 46)	
AUTHORS Bashirova,A.A.	
TITLE Direct Submission	
JOURNAL Submitted [11-FEB-2002] Laboratory of Genomic Diversity, NCI, NCI-Frederick, Frederick, MD 21702, USA	RESULT 10 AY078914S1 LOCUS AX078914S1 DNA linear PRI 21-DEC-2000 gene, exon 1. 46 bp
FEATURES source	DEFINITION Pan troglodytes isolate B1437 putative CD209 protein (CD209) gene, exon 1.
	ACCESSION AX078914
	VERSION AX078914.1 GI:27356921
	KEYWORDS
	SEGMENT 1 of 7
	SOURCE Pan troglodytes (Chimpanzee)
	ORGANISM Pan troglodytes
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
	REFERENCE 1 (bases 1 to 46)
	AUTHORS Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P., Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and Carrington,M.
	TITLE Novel Member of the CD209 (DC-SIGN) Gene Family in Primates J. Virol. 77 (1), 217-227 (2003)
	JOURNAL PUBMED 12477827
	REFERENCE 2 (bases 1 to 46)
	AUTHORS Bashirova,A.A.
	TITLE Direct Submission
	JOURNAL Submitted [11-FEB-2002] Laboratory of Genomic Diversity, NCI, NCI-Frederick, Frederick, MD 21702, USA
	FEATURES Location/Qualifiers
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	/mol type="genomic DNA"
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Query Match Best Local Similarity 73.7%; Pred. No. 5.1e+06; Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;	Query Match Best Local Similarity 73.7%; Pred. No. 5.1e+06; Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
Qy 252 ATGATTCCTCCAAAGAACCAAGGGGCCCTGGCTGG 289	Qy 252 ATGATTCCTCCAAAGAACCAAGGGGCCCTGGCTGG 289
Db 1 ATGAGTGACTCCAAAGAACCAAGACTGAGCAGCTGG 38	Db 1 ATGAGTGACTCCAAAGAACCAAGACTGAGCAGCTGG 38
RESULT AY078906S1 LOCUS AY078906S1 DNA linear PRI 21-DEC-2002 gene, exon 1.	RESULT 11 AX114333 DNA linear PAT 11-MAY-2001 gene
DEFINITION Gorilla gorilla isolate Gg03 putative CD209 protein (CD209) gene, exon 1.	DEFINITION Sequence 2 from Patent WO0129257.
ACCESSION AY078906	ACCESSION AX114333
VERSION AX078906.1	VERSION AX114333.1 GI:14031297
SEGMENT 1 of 7	KEYWORDS
SOURCE Gorilla gorilla (gorilla)	SOURCE Homo sapiens (human)
ORGANISM Gorilla gorilla	ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Gorilla.	Bacterial; Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 46)	REFERENCE 1 Schork,N. and Skierczynski,B.
AUTHORS Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P., Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and Carrington,M.	AUTHORS Methods of genetic cluster analysis and use thereof
TITLE Novel Member of the CD209 (DC-SIGN) Gene Family in Primates J. Virol. 77 (1), 217-227 (2003)	TITLE Patent: WO 0129257-A 26-Apr-2001; GENSET (FR)
JOURNAL PUBMED 12477827	JOURNAL
REFERENCE 2 (bases 1 to 46)	FEATURES location/Qualifiers
AUTHORS Bashirova,A.A.	source 1..46
TITLE Direct Submission	/organism="Gorilla gorilla"
JOURNAL Submitted [11-FEB-2002] Laboratory of Genomic Diversity, NCI, NCI-Frederick, Frederick, MD 21702, USA	/mol type="genomic DNA"
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ORIGIN	
Query Match 1.3%; Score 22; DB 9; Length 46;	

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variation 24
 /note="10-24-234 : polymorphic base A or G"
 BASE COUNT 11 a 10 c 18 g 7 t
 ORIGIN 1 others

RESULT 12
 AX418162
 LOCUS AX418162 21 bp DNA linear PAT 18-JUN-2002
 DEFINITION Sequence 15 from Patent WO0202620.
 ACCESSION AX418162
 VERSION GI:21523172
 KEYWORDS synthetic construct
 ORGANISM synthetic construct
 artificial sequences.

REFERENCE 1
 AUTHORS Lennon, V.A., Yu,Z., Kryzter, T.J. and Griesmann, G.E.
 TITLE Crmp-5 (collapsin response-mediator protein) encoding nucleic acid,
 polypeptide and uses thereof
 Patent: WO 0202620 A 15 10-JAN-2002;
 MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH (US)

FEATURES Location/Qualifiers 1..21
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 /mol type="genomic DNA"
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 /note="oligonucleotide for PCR"
 BASE COUNT 6 a 6 c 5 g 4 t
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 Best Local Similarity 100.0%; Pred. No. 8.9e-06;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 13
 J60571
 LOCUS J60571 45 bp DNA linear PAT 07-OCT-1997
 DEFINITION Sequence 25 from patent US 5656725.
 ACCESSION J60571
 VERSION GI:2479016
 KEYWORDS Unclassified.
 ORGANISM Unknown.
 Peptides and peptides which modulate apoptosis

REFERENCE 1
 AUTHORS Chittenden, T.D. and Lutz, R.J.
 TITLE Peptides and peptides which modulate apoptosis
 Patent: US 5656725 A 25 12-AUG-1997;

FEATURES Source /organism="unknown"
 BASE COUNT 12 a 11 c 15 g 7 t
 ORIGIN 1.3%; Score 21; DB 6; Length 45;

Query Match Best Local Similarity 73.0%; Pred. No. 8.3e+06;
 Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 414 TCAGCGAGTGGATAAGGCATTCAGGAGGATGGA 450
 Db 2 TGGCGAGTGTCAGGCATGGGACGAACTGGGA 38

RESULT 14
 AY078828S1
 LOCUS AY078828S1 46 bp DNA linear PRI 21-DEC-2002
 DEFINITION Pongo pygmaeus isolate Ppy21 putative CD209L1 protein (CD209L1)
 Gene, exon 1.

ACCESSION AY078828
 VERSION AY078828..1 GI:27356811

KEYWORDS 1 of 7
 SOURCE Pongo pygmaeus (orangutan)
 ORGANISM Pongo pygmaeus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo.

REFERENCE 1 (bases 1 to 46)
 AUTHORS Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P.,
 Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and
 Carrington,M.

TITLE Novel Member of the CD209 (DC-SIGN) Gene Family in Primates
 J. Virol. 77 (1), 217-227 (2003)

JOURNAL 12477827

PUBMED 2 (bases 1 to 46)

REFERENCES Bashirova,A.A. and Carrington,M.

AUTHORS Direct Submission

TITLE Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI,
 NCI-Frederick, Frederick, MD 21702, USA

JOURNAL NCIFrederick, Frederick, MD 21702, USA

FEATURES Location/Qualifiers 1..46
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 /mol type="Genomic DNA"
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 /db_xref="taxon:9600"
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 /number=1
 /evidence-not_experimental
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 /note="similar to Homo sapiens CD209L1 gene"

BASE COUNT 13 a 12 c 14 g 7 t
 ORIGIN 1.3%; Score 21; DB 9; Length 46;

Query Match Best Local Similarity 73.0%; Pred. No. 8.3e+06;
 Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 252 ATGATTCTTCAGGAAACCAAGGCCCTGGCTGG 288
 Db 1 ATGGTGTCCAGGAAACCAAGGCCCTGGCTGG 37

RESULT 15
 AY078835S1
 LOCUS AY078835S1 46 bp DNA linear PRI 21-DEC-2002
 DEFINITION Pongo pygmaeus (orangutan)
 Gene, exon 1.

ACCESSION AY078835

VERSION AY078835..1 GI:27356820

KEYWORDS 1 of 7
 SOURCE Pongo pygmaeus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo.

REFERENCE 1 (bases 1 to 46)
 AUTHORS Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P.,
 Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and
 Carrington,M.

TITLE Novel Member of the CD209 (DC-SIGN) Gene Family in Primates
 JOURNAL J. Virol. 77 (1), 217-227 (2003)
 PUBLMED 12477827
 REFERENCE 2 (bases 1 to 46)
 AUTHORS Bashirova, A. A. and Carrington, M.
 TITLE Direct Submissions
 JOURNAL Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI, NCI-Frederick, Frederick, MD 21702, USA
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 BASE COUNT 13 a 12 c -14 g 7 t
 ORIGIN Query Match 1.3%; Score 21; DB 9; Length 46;
 Best Local Similarity 73.0%; Pred. No. 8.3%;
 Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0
 Qy 252 ATGATTCTCCAAAGAACAGGACAGGCCCTGGCTTG 288
 Db - 1 ATGGTGTACTCCAAGAACAGGTCAGCAGCTCG 37

Result No.	Score	Query Length	DB ID	Description
1	26.6	1.6	43 9	AA975126 on0e08.81 NCI CGAP Let-12 Homo sapiens mRNA linear EST 23-OCT-1998 on0e08.81 NCI CGAP Let-12 Homo sapiens mRNA clone IMAGE:1555910 3, similar to TR:Q13024 COLIAPSIN RESPONSE MEDIATOR PROTEIN CRMP-1 [1] ; mRNA sequence.
C 2	22.4	1.4	50 9	AU106847 AU106847 AU06844 AU106844 AU106846 AU106846
C 3	20.6	1.3	50 9	AU106847 AU106847 AU06844 AU106844 AU106846 AU106846
C 4	20.6	1.3	50 9	AU106847 AU106847 AU06844 AU106844 AU106846 AU106846

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

#	Query	Match Length	DB ID
1	gb_gss2:	1.3	AA975126

Scoring table: IDENTITY_NUC	Gapop 10.0 , Gapext 1.0	124404	RESULT 1	REFERENCE AA975126
Perfect score: 1632	Title: US-10-006-911-3_COPY_1345_2976	10837.406 Million residues	LOCUS AA975126 43 bp mRNA	LOCUS AA975126 43 bp mRNA
Sequence: 1 tcgggaaagaaaaatattc.....ttgttgtgtcttagattga 1632	Searched: 22781392 seqs, 12152238056 residues	Total number of hits satisfying chosen parameters: 124404	DEFINITION on0e08.81 NCI CGAP Let-12 Homo sapiens mRNA linear EST 23-OCT-1998	DEFINITION on0e08.81 NCI CGAP Let-12 Homo sapiens mRNA linear EST 23-OCT-1998
Scoring table: IDENTITY_NUC	Gapop 10.0 , Gapext 1.0	Minimum DB seq length: 0	ONTOLOGY on0e08.81 NCI CGAP Let-12 Homo sapiens mRNA clone IMAGE:1555910 3,	ONTOLOGY on0e08.81 NCI CGAP Let-12 Homo sapiens mRNA clone IMAGE:1555910 3,
Scoring table: IDENTITY_NUC	Gapop 10.0 , Gapext 1.0	Maximum DB seq length: 50	MATERIALS AND METHODS H67715 YF72c07..81	MATERIALS AND METHODS H67715 YF72c07..81
Scoring table: IDENTITY_NUC	Gapop 10.0 , Gapext 1.0	Post-processing: Minimum Match 0%	ACCESSION AU103525	ACCESSION AU103525
Scoring table: IDENTITY_NUC	Gapop 10.0 , Gapext 1.0	Maximum Match 100%	KEYWORDS AU103525	KEYWORDS AU103525
Scoring table: IDENTITY_NUC	Gapop 10.0 , Gapext 1.0	Listing first 45 summaries	VERSION AU107374	VERSION AU107374
Database : EST	EST	EST	SOURCE Homo sapiens	SOURCE Homo sapiens
Database : EST	1: em_estba:**	1: em_estba:**	ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Database : EST	2: em_estthum:**	2: em_estthum:**	Mammalia; Eutheria; Primates; Catarinini; Hominidae; Homo.	Mammalia; Eutheria; Primates; Catarinini; Hominidae; Homo.
Database : EST	3: em_estin:**	3: em_estin:**	unpublished	unpublished
Database : EST	4: em_estmu:**	4: em_estmu:**	COMMENT Contact: Robert Strausberg, Ph.D.	COMMENT Contact: Robert Strausberg, Ph.D.
Database : EST	5: em_estov:**	5: em_estov:**	Email: cgapps@mail.nih.gov	Email: cgapps@mail.nih.gov
Database : EST	6: em_estpl:**	6: em_estpl:**	unknown library type	unknown library type
Database : EST	7: em_estro:**	7: em_estro:**	Trace considered overall poor quality	Trace considered overall poor quality
Database : EST	8: em_htc:**	8: em_htc:**	Insert length: 715 Std Error: 0.00	Insert length: 715 Std Error: 0.00
Database : EST	9: gb_est1:**	9: gb_est1:**	Seq Primer: -40m13 fwd. ET from Amerham	Seq Primer: -40m13 fwd. ET from Amerham
Database : EST	10: gb_est2:**	10: gb_est2:**	High quality sequence stop: 1.	High quality sequence stop: 1.
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Database : EST	13: gb_est4:**	13: gb_est4:**	1.	1.
Database : EST	14: gb_est5:**	14: gb_est5:**	1.	1.
Database : EST	15: em_estfun:**	15: em_estfun:**	1.	1.
Database : EST	16: em_estom:**	16: em_estom:**	1.	1.
Database : EST	17: em_gss_num:**	17: em_gss_num:**	1.	1.
Database : EST	18: em_gss_inv:**	18: em_gss_inv:**	1.	1.
Database : EST	19: em_gss_pvn:**	19: em_gss_pvn:**	1.	1.
Database : EST	20: em_gss_vrt:**	20: em_gss_vrt:**	1.	1.
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Database : EST	22: em_gss_mam:**	22: em_gss_mam:**	1.	1.
Database : EST	23: em_gss_mus:**	23: em_gss_mus:**	1.	1.
Database : EST	24: em_gss_pro:**	24: em_gss_pro:**	1.	1.
Database : EST	25: em_gss_fod:**	25: em_gss_fod:**	1.	1.
Database : EST	26: em_gss_phg:**	26: em_gss_phg:**	1.	1.
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/mol_type="mRNA"							
/db_xref="Taxon:9606"							
/clone="IMAGE:1555910"							
/tissue_type="Leiomyosarcoma"							
/lab_host="DH10B"							
/clone_lib="NCI CGAP Le12"							
/note="Organ: soft tissue; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Eco RI; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5'-AATCGGAGAAATTGGCGCCAAATGGTTTTTTTTTTTTT-3'], double-stranded cDNA was ligated with Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."							
BASE COUNT	8 a 11 C 15 g	Score 26.6;	DB 9;	Length 43;			
ORIGIN		Pred. No. 1.3e+04;	Indels 0;	Gaps 0;			
Query Match		Best Local Similarity 87.9%					
Matches 29;	Conservative 0;	Mismatches 4;					
Qy	1278 TCGAGTACACATCTTGAGGCATGGATGGATGCC 1310						
Db	3 TGGAGTACACATCTTGAGGTATGCC 35						
RESULT 3							
AU106844/c	LOCUS	50 bp	mRNA	linear	EST 30-AUG-2001		
DEFINITION Sugano Homo sapiens cDNA library Homo sapiens cDNA clone.	DEFINITION	AU106844	Sugano	Homo sapiens	cDNA library	Homo sapiens	
ACCESSION HRC02437,	ACCESSION	AU106844					
VERSION 4.1	VERSION	AU106844.1					
KEYWORDS EST.	KEYWORDS	GI:13556365					
SOURCE Homo sapiens (human)	SOURCE						
ORGANISM Homo sapiens	ORGANISM						
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	AU106844					
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.	AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.					
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	TITLE						
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)	JOURNAL	EMBO Rep. 2 (5)	388-393	(2001)			
MEDLINE 21270072	MEDLINE						
PUBMED 11375929	PUBMED						
COMMENT Contact: Yutaka Suzuki	COMMENT						
Department of Virology							
Institute of Medical Science, University of Tokyo							
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan							
Email: y Suzuki@ims.u-tokyo.ac.jp							
RESULTS 4							
AU106846/c	LOCUS	50 bp	mRNA	linear	EST 30-AUG-2001		
DEFINITION HS100647,	DEFINITION	AU106846	Sugano	Homo sapiens	cDNA library	Homo sapiens	
ACCESSION AU106846	ACCESSION	AU106846.1					
VERSION 4.1	VERSION	GI:13556367					
KEYWORDS EST.	KEYWORDS						
SOURCE Homo sapiens	SOURCE						
Mammalia; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	AU106846					
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.	AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.					
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	TITLE						
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)	JOURNAL	EMBO Rep. 2 (5)	388-393	(2001)			
MEDLINE 21270072	MEDLINE						
PUBMED 11375929	PUBMED						
COMMENT Contact: Yutaka Suzuki	COMMENT						
Department of Virology							
Institute of Medical Science, University of Tokyo							
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan							
Email: y Suzuki@ims.u-tokyo.ac.jp							
RESULTS 5							
AU106847/c	LOCUS	50 bp	mRNA	linear	EST 30-AUG-2001		
DEFINITION HS100648,	DEFINITION	AU106847	Sugano	Homo sapiens	cDNA library	Homo sapiens	
ACCESSION AU106847	ACCESSION	AU106847.1					
VERSION 4.1	VERSION	GI:13556368					
KEYWORDS EST.	KEYWORDS						
SOURCE Homo sapiens (human)	SOURCE						
Mammalia; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	AU106847					
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.	AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.					
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	TITLE						
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)	JOURNAL	EMBO Rep. 2 (5)	388-393	(2001)			
MEDLINE 21270072	MEDLINE						
PUBMED 11375929	PUBMED						
COMMENT Contact: Yutaka Suzuki	COMMENT						
Department of Virology							
Institute of Medical Science, University of Tokyo							
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan							
Email: y Suzuki@ims.u-tokyo.ac.jp							
RESULTS 6							
AU106848/c	LOCUS	50 bp	mRNA	linear	EST 30-AUG-2001		
DEFINITION HS100649,	DEFINITION	AU106848	Sugano	Homo sapiens	cDNA library	Homo sapiens	
ACCESSION AU106848	ACCESSION	AU106848.1					
VERSION 4.1	VERSION	GI:13556369					
KEYWORDS EST.	KEYWORDS						
SOURCE Homo sapiens	SOURCE						
Mammalia; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	AU106848					
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.	AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.					
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	TITLE						
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)	JOURNAL	EMBO Rep. 2 (5)	388-393	(2001)			
MEDLINE 21270072	MEDLINE						
PUBMED 11375929	PUBMED						
COMMENT Contact: Yutaka Suzuki	COMMENT						
Department of Virology							
Institute of Medical Science, University of Tokyo							
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan							
Email: y Suzuki@ims.u-tokyo.ac.jp							
RESULTS 7							
AU106849/c	LOCUS	50 bp	mRNA	linear	EST 30-AUG-2001		
DEFINITION HS100650,	DEFINITION	AU106849	Sugano	Homo sapiens	cDNA library	Homo sapiens	
ACCESSION AU106849	ACCESSION	AU106849.1					
VERSION 4.1	VERSION	GI:13556370					
KEYWORDS EST.	KEYWORDS						
SOURCE Homo sapiens	SOURCE						
Mammalia; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	AU106849					
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.	AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.					
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	TITLE						
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)	JOURNAL	EMBO Rep. 2 (5)	388-393	(2001)			
MEDLINE 21270072	MEDLINE						
PUBMED 11375929	PUBMED						
COMMENT Contact: Yutaka Suzuki	COMMENT						
Department of Virology							
Institute of Medical Science, University of Tokyo							
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan							
Email: y Suzuki@ims.u-tokyo.ac.jp							
RESULTS 8							
AU106850/c	LOCUS	50 bp	mRNA	linear	EST 30-AUG-2001		
DEFINITION HS100651,	DEFINITION	AU106850	Sugano	Homo sapiens	cDNA library	Homo sapiens	
ACCESSION AU106850	ACCESSION	AU106850.1					
VERSION 4.1	VERSION	GI:13556371					
KEYWORDS EST.	KEYWORDS						
SOURCE Homo sapiens	SOURCE						
Mammalia; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	AU106850					
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.	AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.					
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	TITLE						
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)	JOURNAL	EMBO Rep. 2 (5)	388-393	(2001)			
MEDLINE 21270072	MEDLINE						
PUBMED 11375929	PUBMED						
COMMENT Contact: Yutaka Suzuki	COMMENT						
Department of Virology							
Institute of Medical Science, University of Tokyo							
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan							
Email: y Suzuki@ims.u-tokyo.ac.jp							
RESULTS 9							
AU106851/c	LOCUS	50 bp	mRNA	linear	EST 30-AUG-2001		
DEFINITION HS100652,	DEFINITION	AU106851	Sugano	Homo sapiens	cDNA library	Homo sapiens	
ACCESSION AU106851	ACCESSION	AU106851.1					
VERSION 4.1	VERSION	GI:13556372					
KEYWORDS EST.	KEYWORDS						
SOURCE Homo sapiens	SOURCE						
Mammalia; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	AU106851					
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.	AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.					
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	TITLE						
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)	JOURNAL	EMBO Rep. 2 (5)	388-393	(2001)			
MEDLINE 21270072	MEDLINE						
PUBMED 11375929	PUBMED						
COMMENT Contact: Yutaka Suzuki	COMMENT						
Department of Virology							
Institute of Medical Science, University of Tokyo							
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan							
Email: y Suzuki@ims.u-tokyo.ac.jp							
RESULTS 10							
AU106852/c	LOCUS	50 bp	mRNA	linear	EST 30-AUG-2001		
DEFINITION HS100653,	DEFINITION	AU106852	Sugano	Homo sapiens	cDNA library	Homo sapiens	
ACCESSION AU106852	ACCESSION	AU106852.1					
VERSION 4.1	VERSION	GI:13556373					
KEYWORDS EST.	KEYWORDS						
SOURCE Homo sapiens	SOURCE						
Mammalia; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	AU106852					
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.	AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.					
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	TITLE						
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)	JOURNAL	EMBO Rep. 2 (5)	388-393	(2001)			
MEDLINE 21270072	MEDLINE						
PUBMED 11375929	PUBMED						
COMMENT Contact: Yutaka Suzuki	COMMENT						
Department of Virology							
Institute of Medical Science, University of Tokyo							
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan							
Email: y Suzuki@ims.u-tokyo.ac.jp							
RESULTS 11							
AU106853/c	LOCUS	50 bp	mRNA	linear	EST 30-AUG-2001		
DEFINITION HS100654,	DEFINITION	AU106853	Sugano	Homo sapiens	cDNA library	Homo sapiens	
ACCESSION AU106853	ACCESSION	AU106853.1					
VERSION 4.1	VERSION	GI:13556374					
KEYWORDS EST.	KEYWORDS						
SOURCE Homo sapiens	SOURCE						
Mammalia; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	AU106853					
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.	AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Suyama,A. and Sugano,S.					
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	TITLE						
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)	JOURNAL	EMBO Rep. 2 (5)	388-393	(2001)			
MEDLINE 21270072	MEDLINE						
PUBMED 11375929	PUBMED						
COMMENT Contact: Yutaka Suzuki	COMMENT						

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e-mail: yusuke@ims.u-tokyo.ac.jp
Y. Suzuki, Y. Yoshitomo-Nakagawa, K. Maruyama, K., Suyama, A. and Sugano
S. Construction and characterization of a full length-enriched and
5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

SOURCES		Location/Qualifiers	
source		1. .50 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="Taxon:9606" /clone_id="HS100647" /clone_lib="Sugano Homo sapiens cDNA library"	
BASE COUNT	9	a a a a a a a a a	16 g 14 t
RIGIN			
Query Match	1.3%	Score 20.6;	Length 50;
Best Local Similarity	67.4%	Pred. No. 6.2e+05;	
Matches	29;	Mismatches 14;	Indels 0;
			Gaps 0;
/			
		816 ATGGCGAGGCCATACAGCCAGTTGGAACGGACGGCTCCCA	858
		44 ATGGCGATACACACCATCTCCCTTGGAAAGGTGCGTCACA	2

RESULT 5											
ITEM	VALUE	ITEM	VALUE	ITEM	VALUE	ITEM	VALUE	ITEM	VALUE	ITEM	VALUE
LOCUS	AU106848	DEFINITION	AU106848 Sugano Homo sapiens mRNA library Homo sapiens cDNA clone HSI05259, mRNA sequence.	VERSION	AU106848	VERSION	AU106848.1	KEYWORDS	EST.	ORGANISM	Homo sapiens (human)
REFERENCE		AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Sugaya,A. and Sugano,S.	TITLE	Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	JOURNAL	EMBO Rep. 2 (5), 388-393 (2001)	MEDLINE	21270072	PUBMED	11375229
COMMENT	Contact: Yutaka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Email: yusuzuki@ims.u-tokyo.ac.jp Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Sugaya,A. and Sugano S., Construction and characterization of a full length cDNA library. Gene 200 (1-2), 149-156 (1997). a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).										

RESULT 6	AZ647118.c	AZ647118.c	41 bp	DNA	linear	GSS 14-DEC-2000
LOCUS	1M0513023F	Mouse 10kb plasmid UGGC1M library Mus musculus genomic clone UGGC1M0513023 F, genomic survey sequence.				
DEFINITION	1M0513023F	Mouse 10kb plasmid UGGC1M library Mus musculus genomic clone UGGC1M0513023 F, genomic survey sequence.				
ACCESSION	AZ647118					
VERSION	AZ647118.1	GI:11778266				
KEYWORDS	GSS.					
SOURCE	Mus musculus (house mouse)					
ORGANISM	Mus musculus					
REFERENCE	1 (bases 1 to 41)	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murine; Mus.				
AUTHORS	Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meinen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D.					
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts					
JOURNAL	Unpublished					
COMMENT	Contact: Robert B. Weiss University of Utah Genome Center University of Utah Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177 Email: ddunn@gene.tics.utah.edu Insert Length: 10000 Std Error: 0.00					
FEATURES	Plate: 0513 row: O column: 23 Seq primer: CGTCTTAACGCGCCAGT Class: Plasmid ends High quality sequence stop: 41. Location/Qualifiers					
source	1. .41 /organism="Mus musculus" /mol_type="genomic DNA" /strain="C57BL/6J" /db_xref="taxon:10090" /clone="UGGC1M0513023" /sex="Male" /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-" /clone_lib="Mouse 10kb plasmid UGGC1M library" /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnare/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA Polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD2 (GI 4721149b AF129072.1), a copy-number inducible derivative of Plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."					
BASE COUNT	9 a	15 c	13 g	4 t	Length 41;	
ORIGIN						
Query Match	1.12%	Score 20.4;	DB 28;	Length 41;		
Best Local Similarity	80.0%	Prod. No. 6.4e+05;				
Matches	24;	Mismatches 0;	Indels 0;	Gaps 0;		
Qy	338 CTGCTCGCGCCCTTTGACCACTGGAGGGAA	3.67				
Db	31 CTGCTCGCGCCCTTGTCATGCGCGA	2				

RESULT	7	A2983982	44 bp	DNA	linear	GSS 27-APR-2001
LOCUS	2M0265013F	Mouse 10kb plasmid UGCC2M library	Mus musculus	Genomic		
DEFINITION	clone UGCC2M0265013 F, genomic survey sequence.					
ACCESSION	A2983982	GI:13855209				
VERSION						
KEYWORDS						
ORGANISM	Mus musculus	(house mouse)				
REFERENCE	1 (bases 1 to 44)					
AUTHORS	Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.					
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts					
JOURNAL	Unpublished					
COMMENT	Contact: Robert B. Weiss University of Utah Genome Center Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT Tel: 801 585 5606 Fax: 801 585 7177 Email: ddunn@genetics.utah.edu Insert Length: 10000 Std Error: 0.00 Plate: 0265 row: O column: 13 Seq primer: CGTGTGAAACGAGGCCAGT Class: Plasmid ends					
FEATURES	High quality sequence stop: 44.					
source	Location/Qualifiers					
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	/organism="Mus musculus"	source				
	/mol type="genomic DNA"					
	/strain="C57BL/6J"					
	/db_xref="taxon:10090"					
	/db_xref="UUGC1M0197E14"					
	/sex="Male"					
	/lab host="P. coli strain XL10-Gold, Ti-resistant, F-					
	/clone lib="Mouse 10kb plasmid UGCCM library"					
	/note="Vector: PMD42Inv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource					
	(http://www.jax.org/resources/documents/shares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi 4732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."					
BASE COUNT	17 a 2 c 21 g 4 t					
ORIGIN						
Query Match	1.2%	Score 20.4;	DB 28;	Length 44;		
Best Local Similarity	71.1%	Pred. No. 6.6e+05				
Matches	27;	Conservative 0;	Mismatches 11;	Indels 0;	Gaps 0;	
Matches	28;	Conservative 0;	Mismatches 13;	Indels 0;	Gaps 0;	
OY	428	AAGGGCATCCAGGAGATGGAGCTTGTGAAGGA	465			
BASE COUNT	8 a 3 c 26 g 7 t					
ORIGIN						
Query Match	1.2%	Score 20.2;	DB 28;	Length 44;		
Best Local Similarity	68.3%	Pred. No. 7.5e+05				
Matches	28;	Conservative 0;	Mismatches 13;	Indels 0;	Gaps 0;	
OY	894	TIGTCACTCCCTCACCCCTGAGCCCTGATGTTGACCCACTCCA	934			

University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0488 row: N column: 08
Seq Primer: CACACAGAAACGCTTGTACCC
Class: Plasmid ends
High quality sequence stop: 42.
Location/Qualifiers
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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UGC1M048BN09"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnareas/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (GI|473114|gb|AP129072.1). The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
0 a 20 C 6 g 16 t
BASE COUNT
ORIGIN

Query Match 1.2%; Score 19.6; DB 28; Length 42;
Best Local Similarity 73.5%; Pred. No. 1.e+06;
Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="MEAA_E02.x"
/clone.lib="E"

Query Match 1.2%; Score 19.6; DB 28; Length 42;
Best Local Similarity 73.5%; Pred. No. 1.e+06;
Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
/organism="Spiroplasma kunkelii"
/mol_type="genomic DNA"
/strain="M2"
/db_xref="taxon:47834"
/clone="MEAA_E02.x"
/clone.lib="E"

Query Match 1.2%; Score 19.6; DB 28; Length 43;
Best Local Similarity 73.5%; Pred. No. 1.e+06;
Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="MEAA_E02.x"
/clone.lib="E"

Query Match 1.2%; Score 19.6; DB 28; Length 43;
Best Local Similarity 73.5%; Pred. No. 1.e+06;
Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
/organism="Spiroplasma kunkelii"
/mol_type="genomic DNA"
/strain="M2"
/db_xref="taxon:47834"
/clone="MEAA_E02.x"
/clone.lib="E"

Query Match 1.2%; Score 19.6; DB 28; Length 43;
Best Local Similarity 73.5%; Pred. No. 1.e+06;
Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="MEAA_E02.x"
/clone.lib="E"

Fax: 310 263 3686 Email: hogenhout.1@osu.edu
Plate: AA row: E column: 02
Class: EcoRI fragments.
FEATURES
source
Location/Qualifiers
1. .43
/organism="Spiroplasma kunkelii"
/mol_type="genomic DNA"
/strain="M2"
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BASE COUNT 14 a 7 c 3 g 19 t
ORIGIN

Query Match 1.2%; Score 19.6; DB 28; Length 43;
Best Local Similarity 73.5%; Pred. No. 1.e+06;
Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 475 AAATTCCTTCCTCGTGTACATGGCTTCAGAT 508
Db 3 AAATTCCTTCCTCATTTCTCTTCAGAT 36

RESULT 13
AZ964788/c
LOCUS A2964788
DEFINITION 2M0234C1R Mouse 10kb plasmid UGC2M library Mus musculus genomic clone UGC2M0234C1 R, genomic survey sequence.
ACCESSION A2964788
VERSION A2964788.1
KEYWORDS GTI:13836015
SOURCE GSS
ORGANISM Mus musculus (house mouse)
REMARKS Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 41)
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tringey, A., von Neudernauern, A., and Wright, D., Weiss, R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL Unpublished
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Te1: 801 585 5606
Fax: 801 585 7177
Email: ddunn@generics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0234 row: C column: 11
Seq Primer: CACACGGAAACAGCTTATGACC
Class: Plasmid ends
High Quality sequence stop: 49.
Location/Qualifiers
1. .49
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UGC2M0234C11"
/sex="Female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/lab="Mouse 10kb plasmid UGC2M library"
/note="vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://wwwjax.org/resources/documents/dnareas/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMP2 (gi|1472114|gb|AF129077.1), copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
ORIGIN 12 a 6 c 24 g 7 t
Query Match 1.2%; Score 19.6; DB 28; Length 49;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
QY 930 CTCCAGAGCTTCTCAACTCTTGTGCTGTGGAGACCTCC 971
Db 49 CTCCAGCATTAGGCCCTCTCTCTCTCCACAGTCCTCC 8

RESULT 14
AU106256 LOCUS AU106256 Sugano Homo sapiens mRNA Linear EST 30-AUG-2001
DEFINITION AU106256 Sugano Homo sapiens cDNA library Homo sapiens CDNA Clone
KRIA4033, mRNA sequence.
ACCSSION AU106256
VERSION AU106256.1 GI:13555777
EST.
KEYWORDS
ORGANISM Homo sapiens (human)
AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki Y., Nakamura,Y., Sugiyama,A. and Sugano,S.
TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
PUBMED 11375929
COMMENT Contact: Yukaka Suzuki
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshimoto-Nakawa,K., Maruyama,K., Suyama,A. and Sugano S., Construction and characterization of a full length enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
FEATURES
source
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:6066"
/clone="KAIA4033"
/clone_lib="Sugano Homo sapiens cDNA library"

BASE COUNT
ORIGIN 14 a 9 g 11 t
Query Match 1.2%; Score 19.6; DB 9; Length 50;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 968 CTCCAGGTCAGGGCAGTGCCATGCACTTTAACATGCC 1009
Db 8 CCCCAAGGCAAGGTGAGGTACAGTGCCCTGAACCTTAAACCTCC 39

Query Match 1.2%; Score 19.4; DB 14; Length 40;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 26; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY 664 GCTGAGCCACCTGAGGAGTGTGAGGCCGAAGCTGAA 702
Db 1 GCTGAGNCGATCTGACTNGTCAGTTCCAGCCAGGGCA 39

Search completed: December 10, 2003, 22:38:55
Job time : 3666 secs

RESULT 15
H25033 LOCUS H25033 Soares breast 3RHBBST Homo sapiens cDNA clone DEFINITION Y13F09_r1 Soares breast 3RHBBST Homo sapiens cDNA clone CHAIN:160649 5; Similar to SP:62603 S32603 COLLAGEN ALPHA 1 (VI) CHAIN - MOUSE ; mRNA sequence.
ACCESION H25033
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homosapiens
AUTHORS Hillier,L., Clark,N., Dubucque,T., Elliston,K., Hawkins,M., Holman ,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marras,M., Parsons,J., Riffkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,B., Waterston ,R., Williamson,A., Wohldmann,P. and Wilson,R.
TITLE Unpublished
JOURNAL
COMMENT Unpublished.
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 1426
High Quality sequence starts: 1
High Quality sequence stops: 1
Source: IMAGE Consortium, LILNL This clone is available royalty-free through LILNL ; contact the IMAGE Consortium (info@image.lilnl.gov) for further information.
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Insert Length: 1426 Std Error: 0.00
Seq. Primer: M13RP1
High Quality sequence stop: 1.
Location/Qualifiers
1..40
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:574710"
/db_xref="taxon:9606"
/clone="IMAGE:160649"
/sex="Female"
/dev_stage="adult"
/lab_host="DH10Bampicillin resistant"
/clone_idb="Soares breast 3RHBBST"
/note="Organ: breast; Vector: pT7T3D (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - Oligo(dT) primer [5'-TGTTACCAATCTGAACTGCGAGCGCCGCCCCCTTTTTTTTTT 3'], double-stranded DNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT7T3 vector (Pharmacia). Library went through one round of normalization to a Cot = 20. Library constructed by Bento Soares and M.Fatima Bonaldo."
BASE COUNT
ORIGIN 8 a 9 c 14 g 7 t 2 others
Query Match 1.2%; Score 19.4; DB 14; Length 40;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 26; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 10, 2003, 21:37:47 ; Search time 548 Seconds

Perfect score: 1632 (without alignments)

Sequence: 1 tcaggaaagaaaaattttc.....ttgtctggctcgatgta 1632

Title: US-10-006-911-3_COPY_1345_2976
 Searched: 2201672 seqs, 1661799599 residues

Total number of hits satisfying chosen parameters: 1223696

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA:*

1: /cgtn2_6/ptodata/2/pubnpa/us07_pubcomb.seq:*

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4: /cgtn2_6/ptodata/2/pubnpa/us06_new_pub.seq:*

5: /cgtn2_6/ptodata/2/pubnpa/us07_new_pub.seq:*

6: /cgtn2_6/ptodata/2/pubnpa/pctm5_pubcomb.seq:*

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10: /cgtn2_6/ptodata/2/pubnpa/us09b_pubcomb.seq:*

11: /cn2_6/ptodata/2/pubnpa/us09c_pubcomb.seq:*

12: /cn2_6/ptodata/2/pubnpa/us09_new_pub.seq:*

13: /cn2_6/ptodata/2/pubnpa/us09_new_pub.seq:*

14: /cn2_6/ptodata/2/pubnpa/us10_pubcomb.seq:*

15: /cn2_6/ptodata/2/pubnpa/us10b_pubcomb.seq:*

16: /cgtn2_6/ptodata/2/pubnpa/us310_new_pub.seq:*

17: /cgtn2_6/ptodata/2/pubnpa/us60_new_pub.seq:*

18: /cgtn2_6/ptodata/2/pubnpa/us60_pubcomb.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	30.6	1.9	31	9	US-09-801-274-92	Sequence 92, Appl
2	30.6	1.9	31	9	US-09-801-274-93	Sequence 93, Appl
C	20.6	1.3	41	10	US-09-850-165-64	Sequence 64, Appl
C	20.6	1.3	41	15	US-10-211-357-33	Sequence 33, Appl
C	20.6	1.3	45	13	US-10-282-960-35	Sequence 95, Appl
C	20.4	1.2	37	13	US-10-150-048-13	Sequence 13, Appl
C	20.4	1.2	40	11	US-09-865-281A-6	Sequence 6, Appl
8	20.4	1.2	41	13	US-10-224-683-67	Sequence 67, Appl
9	20.2	1.2	37	13	US-10-027-632-52319	Sequence 52319, A
10	20.2	1.2	37	13	US-10-027-632-52319	Sequence 52331, A
11	20.2	1.2	37	14	US-10-027-632-52319	Sequence 52319, A
12	20.2	1.2	37	14	US-10-027-632-52319	Sequence 52331, A
C	13	20	1.2	20	15	US-10-006-911-34
C	14	20	1.2	20	15	US-10-006-911-35
C	15	20	1.2	20	15	US-10-006-911-36

Sequence 37, App1
 Sequence 38, App1
 Sequence 39, App1
 Sequence 40, App1
 Sequence 41, App1
 Sequence 42, App1
 Sequence 43, App1
 Sequence 44, App1
 Sequence 45, App1
 Sequence 46, App1
 Sequence 47, App1
 Sequence 48, App1
 Sequence 49, App1
 Sequence 50, App1
 Sequence 51, App1
 Sequence 52, App1
 Sequence 53, App1
 Sequence 54, App1
 Sequence 55, App1
 Sequence 56, App1
 Sequence 57, App1
 Sequence 58, App1
 Sequence 59, App1
 Sequence 60, App1
 Sequence 61, App1
 Sequence 62, App1
 Sequence 63, App1

ALIGNMENTS

RESULT 1

; Sequence 92, Application US/09801274
; Patent No.: US20032319A1
; APPLICANT: Cargill, Michele
; APPLICANT: Ireland, James S.
; APPLICANT: Lander, Eric A.
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: 2825, 2009-001
; CURRENT APPLICATION NUMBER: US/09/001,274
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 60/187,510
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 60/206,129
; NUMBER OF SEQ ID NOS: 1802
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 92
; LENGTH: 31
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-801-274-92

APPLICANT: Cargill, Michele S.
 APPLICANT: Ireland, James S.
 APPLICANT: Lander, Eric S.
 TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
 CURRENT APPLICATION NUMBER: US/09/801,274
 CURRENT FILING DATE: 2001-03-07
 PRIOR APPLICATION NUMBER: US 60/187,510
 PRIOR FILING DATE: 2000-03-07
 PRIOR APPLICATION NUMBER: US 60/206,129
 PRIOR FILING DATE: 2000-05-22
 NUMBER OF SEQ ID NOS: 1802
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 93
 LENGTH: 31
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-801-274-93

Query Match Score 30.6; DB 9; Length 31;
 Best Local Similarity 96.8%; Pred. No. 16;
 Matches 30; Conservative 1; Mismatches 0; Indels 0;
 Gaps 0;

Qy 973 GGTCAAGGGCAGTGCCTATGCCATTACCGTTAAC 1003
 Db 1 GGTCAAGGGCAGTGCCTATGCCATTACCGTTAAC 31

RESULT 3
 US-09-850-165-64/c
 Sequence 64, Application US/09850165
 Patent No. US2002015050a1
 GENERAL INFORMATION:
 APPLICANT: NEWMAN, RONALD A.
 APPLICANT: RAAB, RONALD W.
 TITLE OF INVENTION: RECOMBINANT ANTIBODIES FOR HUMAN THERAPY
 FILE REFERENCE: 037003-02801614
 CURRENT APPLICATION NUMBER: US/09/850,165
 CURRENT FILING DATE: 2001-05-08
 PRIOR APPLICATION NUMBER: 09/082,472
 PRIOR FILING DATE: 1998-05-21
 PRIOR APPLICATION NUMBER: 08/476,237
 PRIOR FILING DATE: 1995-06-07
 PRIOR APPLICATION NUMBER: 08/397,072
 PRIOR FILING DATE: 1995-04-17
 PRIOR APPLICATION NUMBER: 07/912,292
 PRIOR FILING DATE: 1992-07-10
 PRIOR APPLICATION NUMBER: 07/856,281
 PRIOR FILING DATE: 1992-03-23
 PRIOR APPLICATION NUMBER: 07/735,064
 PRIOR FILING DATE: 1991-07-25
 NUMBER OF SEQ ID NOS: 114
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 64
 LENGTH: 41
 TYPE: DNA
 FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Primer
 US-09-850-165-64

Query Match Score 1.3%; DB 10; Length 41;
 Best Local Similarity 69.2%; Pred. No. 2.9e+04;
 Matches 27; Conservative 1; Mismatches 11; Indels 0;
 Gaps 0;

Qy 1463 CTGAGAGGGTTCCTCGTGCCTGTATGAGGCCCTGTG 1501
 Db 41 CTGAGCTGGGGCCCTBGTCTCCATGTGAGATGTG 3

RESULT 4
 US-10-211-357-33/c

; Sequence 33, Application US/10211357
 ; Publication No. US20030077275A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hanna, Nabil
 ; Newman, Roland A.
 ; Reff, Mitchell E.
 ; TITLE OF INVENTION: Recombinant Anti-CD4 Antibodies for Human Therapy
 ; NUMBER OF SEQUENCES: 59
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: BURNS, DOANE, SWCKER & MATHIS
 ; STREET: 699 Prince Street
 ; CITY: Alexandria
 ; STATE: VA
 ; COUNTRY: USA
 ; ZIP: 22314-3187
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/10/211,357
 ; FILING DATE: 05-Aug-2002
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/05/612,914A
 ; FILING DATE: 10-Jul-2000
 ; APPLICATION NUMBER: US 05/523,894
 ; FILING DATE: 06-SEP-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Teskin, Robin L.
 ; REGISTRATION NUMBER: 35,030
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 703-836-6620
 ; TELEFAX: 703-836-2021
 ; INFORMATION FOR SEQ ID NO: 33:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 41 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; ANTI-SENSE: NO
 ; ORIGINAL SOURCE:
 ; ORGANISM: Human or Monkey
 ; POSITION IN GENOME:
 ; CHROMOSOME SEGMENT: kappa light chain primer with Bgl II site
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 33:
 ; US-10-211-357-33

Query Match Score 1.3%; Score 20.6; DB 15; Length 41;
 Best Local Similarity 69.2%; Pred. No. 2.9e+04;
 Matches 27; Conservative 1; Mismatches 11; Indels 0;
 Gaps 0;

Qy 1463 CTGAGAGGGTTCCTCGTGCCTGTATGAGGCCCTGTG 1501
 Db 41 CTGAGCTGGGGCCCTBGTCTCCATGTGAGATGTG 3

RESULT 5
 US-10-282-960-95/c
 Sequence 95, Application US/10282960
 Publication No. US20030143228A1
 GENERAL INFORMATION:
 APPLICANT: Chen, Si-Yi
 APPLICANT: ZhaoYang, You
 APPLICANT: Schroers, Roland
 TITLE OF INVENTION: Human Telomerase Reverse Transcriptase as a Class-II Restrictor
 TITLE OF INVENTION: Associated Antigen
 FILE REFERENCE: P02193US1
 CURRENT APPLICATION NUMBER: US/10/282,960

CURRENT FILING DATE: 2002-10-29
 PRIORITY APPLICATION NUMBER: US 60/345,012
 PRIOR FILING DATE: 2001-10-29
 NUMBER OF SEQ ID NOS: 100
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 95
 LENGTH: 45
 TYPE: DNA
 ORGANISM: Human
 US-10-282-960-95

RESULT 6

Query Match 1.3%; Score 20.6; DB 13; Length 45;
 Best Local Similarity 67.4%; Pred. No. 3.1e+04; Indels 0; Gaps 0;
 Matches 29; Conservative 0; Mismatches 14;

Qy 810 TGGGTGTTGGAGCCCTCACTGCCACCTGGAAACGGACCG 852
 Db 43 TGGTGTGTTAGCCCTCACATCACCACATGACATACAG 1

Query Match 1.2%; Score 20.4; DB 11; Length 40;
 Best Local Similarity 71.1%; Pred. No. 3.4e+04;
 Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 601 CATTCTGAGAGGAGGAGGATCTGGATCTGGATCTGG 638
 Db 38 CATCATTCAGAGGGAGGAGGATCTGGATCTGGATCCGG 1

RESULT 8

US-10-224-683-67

Sequence 67, Application US/10224683
 Publication No. US20030162192A1
 GENERAL INFORMATION:
 APPLICANT: Sotoes, John
 APPLICANT: Riehoff, Jr., Hugh
 APPLICANT: Guida, Marco
 APPLICANT: Curran, Mark
 TITLE OF INVENTION: Polymorphisms Associated with Ion-Channel Disease
 FILE REFERENCE: 4389-33
 CURRENT APPLICATION NUMBER: US/10/224,683
 CURRENT FILING DATE: 2002-01-06
 PRIORITY NUMBER: 60/314,331
 PRIOR FILING DATE: 2001-08-20
 PRIORITY NUMBER: 60/378,521
 PRIOR FILING DATE: 2002-05-06
 NUMBER OF SEQ ID NOS: 185
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 67
 LENGTH: 41

Query Match 1.2%; Score 20.4; DB 13; Length 41;
 Best Local Similarity 71.1%; Pred. No. 3.4e+04;
 Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 419 GAGTGCCATTAAGGGCATCCAGGAGATGGAAAGGGCT 456
 Db 4 GAGAAGAAAAGGCCCTTCAGGCCATGAAATGCT 41

RESULT 9

US-10-027-632-52319

Sequence 52319, Application US/10027632
 Publication No. US20030204075A9
 GENERAL INFORMATION:
 APPLICANT: Wang, David G.
 TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
 FILE REFERENCE: 108827129
 CURRENT APPLICATION NUMBER: US/10/027,632
 CURRENT FILING DATE: 2002-04-30
 PRIORITY NUMBER: US 60/218,006
 PRIOR FILING DATE: 2000-07-12
 PRIORITY NUMBER: US 60/198,676
 PRIOR FILING DATE: 2000-04-20
 PRIORITY NUMBER: US 60/193,483
 PRIOR FILING DATE: 2000-03-29
 PRIORITY NUMBER: US 60/185,218
 PRIOR FILING DATE: 2000-02-24
 PRIORITY NUMBER: US 60/167,363
 PRIOR FILING DATE: 1999-11-23
 PRIORITY NUMBER: US 60/156,358
 PRIOR FILING DATE: 1999-09-28
 PRIORITY NUMBER: US 60/146,002
 PRIOR FILING DATE: 1999-08-09
 NUMBER OF SEQ ID NOS: 325720
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 67
 LENGTH: 37

Query Match 1.2%; Score 20.4; DB 13; Length 37;
 Best Local Similarity 80.0%; Pred. No. 3.2e+04;
 Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 412 CATTGGAGCTGCTATAAGGCATCCAGGA 441
 Db 4 CACCACTATGGCAAAGGCAATCCAGA 33

RESULT 7

US-09-865-281A-6/c

Sequence 6, Application US/09865281A
 Publication No. US/09865281A
 GENERAL INFORMATION:
 APPLICANT: Kohler, Heinz
 TITLE OF INVENTION: FUSION PROTEINS OF BIOLOGICALLY ACTIVE PEPTIDES AND ANTIBODIES
 FILE REFERENCE: 411..35629PC2
 CURRENT APPLICATION NUMBER: US/09/865,281A
 CURRENT FILING DATE: 2001-05-29
 PRIOR APPLICATION NUMBER: 09/070,907
 PRIOR FILING DATE: 1998-05-04
 NUMBER OF SEQ ID NOS: 7
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 6
 LENGTH: 40
 TYPE: DNA
 ORGANISM: Artificial
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)..(40)
 OTHER INFORMATION: Synthesized oligonucleotide primer for Stat1 SH2 CDNA
 US-09-865-281A-6

i ORGANISM: Human
 us-10-027-632-52331
 Query Match Score 20.2; DB 13; Length 37;
 Best Local Similarity 1.2%; Pred. No. 3.8e+04;
 Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 SEQ ID NO: 52331
 LENGTH: 37
 TYPE: DNA
 ORGANISM: Human
 US-10-027-632-52331

RESULT 10
 US-10-027-632-52331
 Sequence 52331, Application US/10027632
 Publication No. US20030204075A9
 GENERAL INFORMATION:
 APPLICANT: Wang, David G.
 TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
 FILE REFERENCE: 108327.129
 CURRENT APPLICATION NUMBER: US/10/027,632
 CURRENT FILING DATE: 2002-04-30
 PRIOR APPLICATION NUMBER: US 50/218,006
 PRIOR FILING DATE: 2000-07-12
 PRIOR APPLICATION NUMBER: US 60/198,676
 PRIOR FILING DATE: 2000-04-20
 PRIOR APPLICATION NUMBER: US 60/193,483
 PRIOR FILING DATE: 2000-03-29
 PRIOR APPLICATION NUMBER: US 60/185,218
 PRIOR FILING DATE: 2000-02-24
 PRIOR APPLICATION NUMBER: US 60/167,363
 PRIOR FILING DATE: 1999-11-23
 PRIOR APPLICATION NUMBER: US 60/156,358
 PRIOR FILING DATE: 1999-09-28
 PRIOR APPLICATION NUMBER: US 60/146,002
 PRIOR FILING DATE: 1999-08-09
 NUMBER OF SEQ ID NOS: 325/20
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 52331
 LENGTH: 37
 TYPE: DNA
 ORGANISM: Human
 US-10-027-632-52331

Query Match Score 20.2; DB 13; Length 37;
 Best Local Similarity 1.2%; Pred. No. 3.8e+04;
 Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 SEQ ID NO: 52331
 LENGTH: 37
 TYPE: DNA
 ORGANISM: Human
 US-10-027-632-52331

RESULT 11
 US-10-027-632-52331
 Sequence 52331, Application US/10027632
 GENERAL INFORMATION:
 APPLICANT: Wang, David G.
 TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
 FILE REFERENCE: 108327.129
 CURRENT APPLICATION NUMBER: US/10/027,632
 CURRENT FILING DATE: 2002-04-30
 PRIOR APPLICATION NUMBER: US 50/218,006
 PRIOR FILING DATE: 2000-07-12
 PRIOR APPLICATION NUMBER: US 60/198,676
 PRIOR FILING DATE: 2000-04-20
 PRIOR APPLICATION NUMBER: US 60/193,483
 PRIOR FILING DATE: 2000-03-29
 PRIOR APPLICATION NUMBER: US 60/185,218
 PRIOR FILING DATE: 2000-02-24
 PRIOR APPLICATION NUMBER: US 60/167,363
 PRIOR FILING DATE: 1999-11-23
 PRIOR APPLICATION NUMBER: US 60/156,358
 PRIOR FILING DATE: 1999-09-09
 NUMBER OF SEQ ID NOS: 325/20
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 52331
 LENGTH: 37
 TYPE: DNA
 ORGANISM: Human
 US-10-027-632-52331

RESULT 12
 US-10-027-632-52331
 Sequence 52331, Application US/10027632
 GENERAL INFORMATION:
 APPLICANT: Wang, David G.
 TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
 FILE REFERENCE: 108327.129
 CURRENT APPLICATION NUMBER: US/10/027,632
 CURRENT FILING DATE: 2002-04-30
 PRIOR APPLICATION NUMBER: US 50/218,006
 PRIOR FILING DATE: 2000-07-12
 PRIOR APPLICATION NUMBER: US 60/198,676
 PRIOR FILING DATE: 2000-04-20
 PRIOR APPLICATION NUMBER: US 60/193,483
 PRIOR FILING DATE: 2000-03-29
 PRIOR APPLICATION NUMBER: US 60/185,218
 PRIOR FILING DATE: 2000-02-24
 PRIOR APPLICATION NUMBER: US 60/167,363
 PRIOR FILING DATE: 1999-11-23
 PRIOR APPLICATION NUMBER: US 60/156,358
 PRIOR FILING DATE: 1999-09-09
 NUMBER OF SEQ ID NOS: 325/20
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 52331
 LENGTH: 37
 TYPE: DNA
 ORGANISM: Human
 US-10-027-632-52331

RESULT 13
 US-10-006-911-34/C
 Sequence 34, Application US/10006911
 GENERAL INFORMATION:
 APPLICANT: Andrew T. Watt
 TITLE OF INVENTION: Antisense Modulation of Collapsin Response Mediator Protein 2 B
 FILE REFERENCE: RTS-0200
 CURRENT APPLICATION NUMBER: US/10/006,911

RESULT 13
 CURRENT FILING DATE: 2001-11-08
 NUMBER OF SEQ ID NOS: 89
 SEQ ID NO 34
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Antisense Oligonucleotide
 US-10-006-911-34

Query Match Score 20; DB 15; Length 20;
 Best Local Similarity 100.0%; Pred. No. 3.2e+04;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 TCAGGGGARGAAATAATTC 20
 Db 20 TCAGGGGAGAAATAATTC 1

RESULT 14
 US-10-006-911-35/c
 Sequence 35, Application US/10006911
 Publication No. US20030125274A1
 GENERAL INFORMATION:
 APPLICANT: William Gaarde
 ATTORNEY: Andrew T. Watt
 TITLE OF INVENTION: ANTISENSE MODULATION OF COLLAPSIN RESPONSE MEDIATOR PROTEIN 2 EXP
 FILE REFERENCE: RTS-0200
 CURRENT APPLICATION NUMBER: US/10/006,911
 CURRENT FILING DATE: 2001-11-08
 NUMBER OF SEQ ID NOS: 89
 SEQ ID NO 35
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Antisense Oligonucleotide
 US-10-006-911-35

Query Match Score 20; DB 15; Length 20;
 Best Local Similarity 100.0%; Pred. No. 3.2e+04;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 9 AGAAAATATTCCACGCTC 28
 Db 20 AGAAAATATTCCACGCTC 1

RESULT 15
 US-10-006-911-36/c
 Sequence 36, Application US/10006911
 Publication No. US20030125274A1
 GENERAL INFORMATION:
 APPLICANT: William Gaarde
 ATTORNEY: Andrew T. Watt
 TITLE OF INVENTION: ANTISENSE MODULATION OF COLLAPSIN RESPONSE MEDIATOR PROTEIN 2 EXP
 FILE REFERENCE: RTS-0200
 CURRENT APPLICATION NUMBER: US/10/006,911
 CURRENT FILING DATE: 2001-11-08
 NUMBER OF SEQ ID NOS: 89
 SEQ ID NO 36
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Antisense Oligonucleotide
 US-10-006-911-36

Query Match Score 20; DB 15; Length 20;
 Best Local Similarity 100.0%; Pred. No. 3.2e+04;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 15 ATATTCACGCATCACGAGC 34

RESULT 2
US-09-641-638-1191
Sequence 1191, Application US/09641638
GENERAL INFORMATION:
APPLICANT: Blumenfeld, Marta
APPLICANT: Bouquelert, Lydie
APPLICANT: Chunakov, Ilya
APPLICANT: Cohen, Annick
TITLE OF INVENTION: BIALLILEIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING FILE REFERENCE: GENSET-051CPL1
CURRENT APPLICATION NUMBER: US/09/641,638
CURRENT FILING DATE: 2000-08-16
PRIOR APPLICATION NUMBER: US 09/502,330
PRIOR FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: US 60/133,200
PRIOR FILING DATE: 1999-05-07
PRIOR APPLICATION NUMBER: US 09/275,267
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: US 60/119,917
PRIOR FILING DATE: 1999-02-12
NUMBER OF SEQ ID NOS: 1304
SOFTWARE: Patent .pm
SEQ ID NO: 1191
LENGTH: 47
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: allele
LOCATION: 24
OTHER INFORMATION: 10-24-234 : polymorphic base A or G
US-09-641-638-1191

Query Match 1.3%; Score 21.8; DB 4; Length 47;
Best Local Similarity 67.4%; Pred. No. 5.4e+03;
Matches 29; Conservative 1; Mismatches 13; Indels 0;
Gaps 0;

Qy 425 CATANGGGCATCCAGGGAGGAGATGAAGGCTTGTCAGGATC 467
Db 1 CAGGACCGTGTCCGGAGGCTTCAGGAGCTTCGAAGGACC 43

RESULT 3
US-08-440-391-25
Sequence 25, Application US/08440391
GENERAL INFORMATION:
APPLICANT: CHITTENDEN, Thomas D.; and
APPLICANT: LUTZ, Robert J.
TITLE OF INVENTION: NOVEL PEPTIDES AND COMPOSITIONS WHICH NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hale and Dorr
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/908,597A
FILING DATE: 09-09-1995
CLASSIFICATION: 530
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/08/440,391
FILING DATE: 12-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: WIXON, HENRY N.
REGISTRATION NUMBER: 32,073
REFERENCE/DOCKET NUMBER: 104322-147
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-942-8484
TELEFAX: 202-942-8484
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-908-597A-25

Query Match 1.3%; Score 21; DB 2; Length 45;
Best Local Similarity 73.0%; Pred. No. 8.8e+03;
Matches 27; Conservative 0; Mismatches 10; Indels 0;
Gaps 0;

Qy 414 TCAACGAGTGGCATAGGGCATGGGAGATGGAGATGGA 450
Db 2 TGAGCGAGTGTCTCAAGGCCATGGGAGCAACTGGA 38

RESULT 5
US-10-216-385A-25
Sequence 25, Application US/09236385A
Patent No. 6221615
GENERAL INFORMATION:
APPLICANT: CHITTENDEN, Thomas D.; and
LUTZ, Robert J.
TITLE OF INVENTION: NOVEL PEPTIDES AND COMPOSITIONS WHICH
NUMBER OF SEQUENCES: 41
MODULATE APOPTOSIS
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hale and Dorr
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/236,385A
FILING DATE: 25-JUN-1999
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: WIXON, HENRY N.
REGISTRATION NUMBER: 32,073
(C) ATTORNEY DOCKET NO. 104322.147CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-942-8400
TELEFAX: 202-942-8484
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-09-236-385A-25

Query Match 1.3%; Score 21; DB 3; Length 45;
Best Local Similarity 73.0%; Pred. No. 8.9e+03;
Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 414 TCAGGGAGTCGATAGGGCATCCAGGAGATGGA 450
Db 2 TGAGCGAGTGCTCTAGGCATCGGGACACTGGA 38

RESULT 6
PCT-US96-06122-25
Sequence 25, Application PCT/US9606122
GENERAL INFORMATION:
APPLICANT: IMMUNOCEN, INC.
TITLE OF INVENTION: WHICH MODULATE APOPTOSIS
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hale and Dorr
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 08/379,072
FILING DATE: 25-JAN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/379,072
FILING DATE: 25-JUL-1991
APPLICATION NUMBER: US 07/912,292
FILING DATE: 10-TUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/856,281
FILING DATE: 23-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/735,064
FILING DATE: 25-JUL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Teskin Esq., Robin L.
REGISTRATION NUMBER: 35,030
REFERENCE/DOCKET NUMBER: 012712-160

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 703-836-6620
 INFORMATION FOR SEQ ID NO: 40:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 41 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLogy: linear
 MOLECULE TYPE: cDNA
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 POSITION IN GENOME:
 CHROMOSOME SEGMENT: kappa light chain primer with BglII site
 US-08-476-349A-40

Query Match Score 20.6; DB 1; Length 41;
 Best Local Similarity 69.2%; Pred. No. 1.1e+04;
 Matches 27; Conservative 1; Mismatches 11; Indels 0; Gaps 0;

Qy 1463 CTGAGGGGGTTCCTGGCTGTATGAGGACCTGT 1501
 Db 41 CTGAGTGGGGCCCTBGTGCCATGGTGAGATCTG 3

RESULT 9
 US-08-522-894-33/C
 Sequence 33, Application US/085223894
 Patent No. 6136310

GENERAL INFORMATION:
 APPLICANT: Hanna, Nabil A.
 APPLICANT: Newman, Roland A.
 APPLICANT: Raab, Ronald W.
 APPLICANT: Saeed, Ahmad
 TITLE OF INVENTION: Recombinant Anti-CD4 Antibodies for Human Therapy
 NUMBER OF SEQUENCES: 59
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
 STREET: 699 Prince Street
 CITY: Alexandria
 STATE: VA
 COUNTRY: USA
 ZIP: 22314-3187

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/476-349A
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 514
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/379,072
 FILING DATE: 25-JAN-1995
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/912,292
 FILING DATE: 10-JUL-1992
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/855,281
 FILING DATE: 23-MAR-1992
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/735,064
 FILING DATE: 25-JUL-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Teskin, Esg-, Robin L.
 REGISTRATION NUMBER: 35,030
 REFERENCE/DOCKET NUMBER: 012712-161
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 703-836-6620

INFORMATION FOR SEQ ID NO: 40:
 SEQUENCE CHARACTERISTICS:

Query Match Score 20.6; DB 3; Length 41;
 Best Local Similarity 69.2%; Pred. No. 1.1e+04;
 Matches 27; Conservative 1; Mismatches 11; Indels 0; Gaps 0;

QY 1463 CTGAGGGGGTTCCCTGTGCCCTATGAGGACCTG 1501
 DB 41 CTGAGGGGGCCCTGTGAGATCTG 3

RESULT 10
 US-09-422-978-1050/c
 GENERAL INFORMATION:
 Patent No. 6537751
 APPLICANT: Cohen, Daniel
 APPLICANT: Blumenfeld, Marta
 TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
 FILE REFERENCE: GENSET 02CP1
 CURRENT APPLICATION NUMBER: US/09/422,978
 CURRENT FILING DATE: 1999-10-20
 EARLIER APPLICATION NUMBER: US 09/298,850
 EARLIER FILING DATE: 1999-04-21
 EARLIER APPLICATION NUMBER: US 60/109,732
 EARLIER FILING DATE: 1998-11-23
 EARLIER APPLICATION NUMBER: US 60/082,614
 EARLIER FILING DATE: 1998-04-21
 NUMBER OF SEQ ID NOS: 11796
 LENGTH: 47
 TYPE: DNA
 ORGANISM: Homo Sapiens
 FEATURE:
 NAME/KEY: allele
 LOCATION: 24
 OTHER INFORMATION: 99-20023-386 : polymorphic base A or T
 US-09-422-978-1050

Query Match 1.3%; Score 20.6; DB 4; Length 47;
 Best Local Similarity 64.4%; Pred. No. 1.2e+04;
 Matches 29; Conservative 1; Mismatches 15; Indels 0; Gaps 0;

QY 477 ATTCCCTCCCTGTGACATGGCTTCAAAATGCTTCAGCTTA 521
 DB 46 AATGCTTCCCTGTGACATGGCTTCTGGACTACAGCAGGTCA 2

RESULT 11
 US-09-054-492B-3/c
 Sequence 3, Application US/09054492B
 Patent No. 6218115
 GENERAL INFORMATION:
 APPLICANT: TAKESHI NAKAMURA
 TITLE OF INVENTION: HUMAN CYCLIN I AND GENES ENCODING SAME
 NUMBER OF SEQUENCES: 5
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: PILLSBURY, MADISON & SUTRO
 STREET: 1100 NEW YORK AVENUE, N.W.
 CITY: WASHINGTON
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/054,492B
 FILING DATE: APRIL 3, 1998
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: PAUL E. WHITE, JR.
 REGISTRATION NUMBER: 32,011
 REFERENCE/DOCKET NUMBER: 7898/252159
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 861-3000

ORIGINAL SOURCE:
 / / ORGANISM: Homo sapiens and Monkey
 / / POSITION IN GENOME: kappa light chain primer with BglII site
 / / CHROMOSOME/SEGMENT: kappa light chain primer with BglII site
 / / US-08-478-039-39

Query Match Score 19.8; DB 1; Length 41;
 Best Local Similarity 69.2%; Pred. No. 1.9e+04;
 Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 1463 CTGAGGGGGTTCCTGGCTGTATACGGACCTGT 1501
 Db 41 CTGAGCGGGACCTCATGTCCATGGAGATCTGTG 3

RESULT 14
 US-08-803-085-5/C
 ; Sequence 5, Application US/08803085

GENERAL INFORMATION:
 / / APPLICANT: REFF, Mitchell E.
 / / ATTORNEY/AGENT INFORMATION:
 / / NAME: Teskin, Robin L.
 / / ADDRESS: BURNS, DOANE, SWECKER & MATHIS
 / / STREET: P.O. Box 1404
 / / CITY: Alexandria
 / / STATE: Virginia
 / / COUNTRY: United States
 / / ZIP: 22313-1404
 / / COMPUTER READABLE FORM:
 / / COMPUTER: IBM PC compatible
 / / OPERATING SYSTEM: PC-DOS/MS-DOS
 / / SOFTWARE: PatentIn Release #1.0, Version #1.30
 / / CURRENT APPLICATION DATA:
 / / APPLICATION NUMBER: US/08/476,349A
 / / FILING DATE: 07-JUN-1995
 / / CLASSIFICATION: 514
 / / PRIOR APPLICATION DATA:
 / / APPLICATION NUMBER: US 08/379,072
 / / FILING DATE: 25-JAN-1995
 / / PRIOR APPLICATION DATA:
 / / APPLICATION NUMBER: US 07/912,292
 / / FILING DATE: 10-JUL-1992
 / / PRIOR APPLICATION DATA:
 / / APPLICATION NUMBER: US 07/856,281
 / / FILING DATE: 23-MAR-1992
 / / PRIOR APPLICATION DATA:
 / / APPLICATION NUMBER: US 07/735,064
 / / FILING DATE: 25-JUL-1991
 / / ATTORNEY/AGENT INFORMATION:
 / / NAME: Teskin Esq., Robin L.
 / / REGISTRATION NUMBER: 35,030
 / / TELECOMMUNICATION INFORMATION:
 / / TELEPHONE: 703-836-6620
 / / TELEFAX: 703-836-2021
 / / INFORMATION FOR SEQ ID NO: 39:
 / / SEQUENCE CHARACTERISTICS:
 / / LENGTH: 41 base pairs
 / / TYPE: nucleic acid
 / / STRANDEDNESS: single
 / / TOPOLOGY: linear
 / / MOLECULE TYPE: cDNA
 / / ANTI-SENSE: NO
 / / ORIGINAL SOURCE:
 / / ORGANISM: Homo sapiens and Monkey
 / / POSITION IN GENOME: kappa light chain primer with BglII site
 / / CHROMOSOME/SEGMENT: kappa light chain primer with BglII site
 / / US-08-476-349A-39

Query Match Score 19.8; DB 1; Length 41;
 Best Local Similarity 69.2%; Pred. No. 1.9e+04;
 Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 1463 CTGAGGGGGTTCCTGGCTGTATACGGACCTGT 1501
 Db 41 CTGAGCGGGACCTCATGTCCATGGAGATCTGTG 3

RESULT 15
 US-08-523-894-32/C
 ; Sequence 32, Application US/08523894
 / / PATENT NO. 6136310
 / / GENERAL INFORMATION:
 / / APPLICANT: Hanna, Nabil A.
 / / ATTORNEY/AGENT INFORMATION:
 / / NAME: Newman, Roland A.
 / / ADDRESS: Reff, Mitchell E.
 / / TITLE OF INVENTION: Recombinant Anti-CD4 Antibodies for Human Therapy
 / / NUMBER OF SEQUENCES: 59

i CORRESPONDENCE ADDRESS:
 i ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
 i STREET: 699 Prince Street
 i CITY: Alexandria
 i STATE: VA
 i COUNTRY: USA
 i ZIP: 22314-3187
 i COMPUTER READABLE FORM:
 i MEDIUM TYPE: Floppy disk
 i COMPUTER: IBM PC compatible
 i OPERATING SYSTEM: PC-DOS/MS-DOS
 i SOFTWARE: PatentIn Release #1.0, Version #1.30
 i CURRENT APPLICATION DATA:
 i APPLICATION NUMBER: US/08/523, 894
 i FILING DATE: 06-SEP-1995
 i CLASSIFICATION: 424
 i ATTORNEY/AGENT INFORMATION:
 i NAME: Teskin, Robin L.
 i REGISTRATION NUMBER: 35, 030
 i REFERENCE/DOCKET NUMBER: 012712-165
 i TELECOMMUNICATION INFORMATION:
 i TELEPHONE: 703-336-6520
 i TELEFAX: 703-836-2021
 i INFORMATION FOR SEQ ID NO: 32:
 i SEQUENCE CHARACTERISTICS:
 i LENGTH: 41 base pairs
 i TYPE: nucleic acid
 i STRANDEDNESS: single
 i TOPOLOGY: linear
 i MOLECULE TYPE: DNA (genomic)
 i ANTI-SENSE: NO
 i ORIGINAL SOURCE:
 i ORGANISM: Human or Monkey
 i POSITION IN GENOME:
 i CHROMOSOME/SEGMENT: kappa light chain primer with Bgl II site
 US-08-523-894-32

Query Match 1.2%; Score 19.8; DB 3; Length 41;
 Best Local Similarity 69.2%; Pred. No. 1.9e+04;
 Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
 QY 1463 CTGAGGGGTTCCCTGTGCCATGACGGACTG 1501
 Db 41 CTGAGCGGGACCCATGTCATGAGATCTTG 3

Search completed: December 10, 2003, 22:41:01
 Job time : 116 secs

PI Cargill M, Ireland JS, Lander ES;
 XX WPI; 2001-522952/57.

XX Nucleic acid molecules from the human genome which include polymorphic sites useful in methods for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype -
 XX PS Claim 1; Page 34; 145pp; English.
 XX

CC The invention relates to the identification of nucleic acid molecules (AA129513-AA13134) from the human genome which include polymorphic sites which can predispose individuals to disease. Various genes from a number of individuals were resequenced and single nucleotide polymorphisms (SNPs) in these genes discovered. The method is useful for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype. The nucleic acids containing the polymorphic sites may be useful in forensics and paternity testing.

XX Sequence 31 BP; 6 A; 9 C; 9 G; 7 T; 0 other;

Query Match 1.9%; Score 31; DB 22; Length 31;
 Best Local Similarity 100.0%; Pred. No. 68;
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 973 GGTCACGGCGATGCCATTGCACTTTAAC 1003
 Db 1 GGTCACGGCGATGCCATTGCACTTTAAC 31

RESULT 3
 AAX02133
 ID AAX02133 standard; DNA; 39 BP.
 XX
 AC AAX02133;
 DT 23-APR-1999 (first entry)
 XX Human FEN-1 DNA fragment #16.
 XX FEN-1; human; flap endonuclease; detection; diagnosis; carcinogen;
 KW neoplasia; antineoplastic agent; cleavage; ss.
 XX
 OS Homo Sapiens.
 XX US5874283-A.
 XX PD 23-FEB-1999.
 XX PP 30-MAY-1995;
 XX PR 30-MAY-1995;
 XX XX 95US-0455968.
 XX (HARR/) HARRINGTON J J.
 PA (HSIEH/) HSIEH C.
 PA (LIEBER/) LIEBER M R.
 XX PI Harrington JJ, Hsieh C, Lieber MR;
 XX DR WPI; 1999-179985/15.
 XX DNA encoding flap endonuclease polypeptides - useful for producing
 PT e.g. recombinant polypeptides
 XX
 XX Claim 2; Column 25-26; 58pp; English.
 XX
 CC AAX02118-102140 represent fragments of a human FEN-1 (flap endonuclease) protein. This protein can be used in methods for detecting a pathological condition in a patient, for diagnostic purposes, for screening for antineoplastic agents and carcinogens, for staging of neoplasia, for producing recombinant flap endonuclease for use as research or diagnostic reagents, for producing transgenic nonhuman animals with the novel polypeptides, for producing recombinant flap endonuclease for use as research or diagnostic reagents, for producing transgenic nonhuman animals expressing the novel polypeptides encoded by a transgene. The invention also provides novel molecular cloning techniques and reagents involving cleavage of a flap or nick with a flap endonuclease.

XX Sequence 39 BP; 12 A; 10 C; 12 G; 5 T; 0 other;
 SQ Query Match 1.4%; Score 23.2; DB 20;
 Best Local Similarity 77.8%; Pred. No. 1.2e+04; Length 39;

XX WPI; 2001-522952/57.

XX Nucleic acid molecules from the human genome which include polymorphic sites useful in methods for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype -
 XX PS Claim 1; Page 34; 145pp; English.
 XX

Matches	28;	Conservative	0;	Mismatches	8;	Indels	0;	Gaps	0;		
Qy	406	TGTGACATAGCCAGTGGATAAGGCATCCAGGA	441							OS	Mus musculus.
	4	TGTGACCTCATCCCGAAAGCAAGCATCGAGGA	39							XX	FR2759701-A1.
Db										XX	PN
										XX	PD 21-AUG-1998.
										XX	PP 19-FEB-1997;
										XX	PR 19-FEB-1997;
										XX	WPI; 1998-449610/39.
										XX	Mouse and human ULIP poly-peptide(s) - useful in detection of para-neoplastic neurological syndromes
										XX	(INRM) INSERM INST NAT SANTE & RECH MEDICALE.
										XX	PA (INRM) INSERM INST NAT SANTE & RECH MEDICALE.
										XX	Agüera M, Belin MF, Byk T, Honnorat J, Kolattukudy P;
										XX	Quach TT, Sobe A;
										DR	
										XX	WPI; 1998-449610/39.
										XX	Mouse and human ULIP poly-peptide(s) - useful in detection of para-neoplastic neurological syndromes
										XX	PT PT
										PS	Example 10; Page 43; 90pp; French.
										XX	PS Example 10; Page 43; 90pp; French.
										XX	Primers AAV6028-V6029 represent PCR primers used to amplify the gene sequence of the Unc-33-like phosphoprotein 2 (ULIP-2) gene from lung cancer cells, especially from small cell lung cancers. The amplification is used to detect the ULIP-3 gene in these cancers. Proteins of the ULIP family or their corresponding nucleic acids can be used in compositions for treating neurodegenerative disorders and neoplasms, especially for para-neoplastic neurological syndromes and/or for the early diagnosis of tumour genesis.
										XX	Sequence 22 BP; 3 A; 8 C; 4 G; 7 T; 0 other;
										XX	Query Match 1.3%; Score 22; DB 1.9; Length 22;
										XX	Best Local Similarity 100.0%; Pred. No. 1.4e-04;
										XX	Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
										XX	DB 22 GGACTCAGCGAGTCGCCATAAG 1
										XX	Qy 409 GGACATCAGCGAGTCGCCATAAG 420
										XX	DB 22 GGACTCAGCGAGTCGCCATAAG 1
										XX	Result 6 AAD29279/c
										XX	ID AAD29279 standard; DNA; 22 BP.
										XX	AC AAD29279;
										XX	DT 07-MAY-2002 (first entry)
										XX	Human CRMp-2 amplifying PCR primer, CRMp2-4.
										XX	DR DR
										XX	X Human; collagen response-mediator protein-5; neoplasm;
										XX	KW paraneoplastic autoimmunity; small-cell lung carcinoma; thymoma; neuroblastoma; CRMp-2; dihydroxyimidinase related protein-2;
										XX	KW DRP-2; PCR primer; ss.
										XX	X Homo sapiens.
										XX	OS WO200202620-A2.
										XX	PN 10-JAN-2002.
										XX	PD 28-JUN-2001; 2001WO-US200507.
										XX	PR 29-JUN-2000; 2000US-0605924.
										XX	PA (MAYO) MAYO FOUND MEDICAL EDUCATION RES.
										XX	PI Lennon VA, Yu Z, Kryzer TJ, Griesmann GE;
										XX	DE WPI; 2002-171637/22.
										XX	SYNTHETIC
										XX	Mouse; Unc-33-like phospho-protein; ULIP; rat; neoplasm; tumorigenesis; neurodegenerative disorder; diagnosis; primer; PCR; amplification; ss.
										XX	Synthetic.
										XX	WPI; 2002-171637/22.
										XX	RESULT 5 AAV60829/c
										XX	ID AAV60829 standard; DNA; 22 BP.
										XX	AAV60829;
										XX	08-DEC-1998 (first entry)
										XX	Primer 509 for ULIP-2 gene.
										XX	DE XX
										XX	SYNTHETIC

PR Isolated nucleic acids (N) which encode CRMP-5 polypeptides are useful in detecting anti-CRMP-5 autoantibodies in a patient with paraneoplastic neurological manifestations and neoplasm -

Example 2; Page 9; 40pp; English.

XX The invention relates to human collapsin response-mediator protein-5 (CRMP-5) and nucleic acid molecules encoding such proteins. The presence of anti-CRMP-5 autoantibody in a biological sample is associated with paraneoplastic autoimmune in the individual and neoplasm such as small-cell lung carcinoma, neuroblastoma and thymoma. The present sequence is human CRMP-2 (dihydropyrimidinase related protein-2, DRP-2) amplifying PCR primer used in the exemplification of the invention.

XX Sequence 22 BP; 2 A; 4 C; 8 G; 8 T; 0 other;

SQ Query Match Score 22; DB 24; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.9e+04;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1229 GACCCGGAGCGTTAAACCA 1250
Db 22 GACCCGGAGCGTTAAACCA 1

RESULT 7
APL32108/C
ID APL32108 standard; DNA; 50 BP.
XX
AC AAL32108;
XX DT 24-JAN-2002 (first entry)
DE Human SNP oligonucleotide #5316.
XX

XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic; neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer; amyloid protein; angiopoietin; apoptosis related protein; cadherin; cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor; complement related protein; cytochrome; kinase; cytokine; interferon; interleukin; G-protein coupled receptor; thioesterase; inflammation; multifactorial disease; infection; nervous system disease; ss.
XX Homo sapiens.
XX WO200147944-A2.
XX PD 05-JUL-2001.
PP 28-DEC-2000; 2000WO-US35498.
XX 28-DEC-1999; 99US-0173419.
PR 27-DEC-2000; 2000US-0173419.
XX PA (CURA-) CURAGEN CORP.
XX Shimkets RA, Leach M;
XX WPI; 2001-465210/50.

PT Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncogenes and histones, useful for diagnosing and treating, e.g. cancer, autoimmune diseases and infections -
XX Claim 1; Page 2917; 4143pp; English.
PS The present invention relates to oligonucleotides encoding polymorphic variants of proteins related to amyloses, cadherin, cyclin, polymerase, oncogenes, histones, kinases, colony stimulating factors, complement related proteins, cytochromes, kinesins, cytokines, interleukins, interferons,

PR G-protein coupled receptors and thioesterases. The present sequence is one such oligonucleotide. The Oligonucleotides and the peptides encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression of the proteins listed above. Disorders that may be prevented, diagnosed and/or treated include multifactorial diseases with a genetic component, such as autoimmune diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes, systemic lupus erythematosus and Grave's disease), inflammation, (e.g. cancers of the bladder, breast, colon and kidney, leukaemia), diseases of the nervous system and an infection of pathogenic organisms.

XX SQ Sequence 50 BP; 12 A; 22 C; 8 G; 8 T; 0 other;

Query Match Score 21.8%; DB 22; Length 50;
Best Local Similarity 70.7%; Pred. No. 3.3e+04;
Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 1454 CTGGCTGAGTGAGGGTTCCTCGGGCTGTATGAGGG 1494
Db 50 CTGGCTGAGGTATAGAGGGCTCTGGCTGGCTTAGGG 10

RESULT 8
ABK14175
ID ABK14175 standard; DNA; 41 BP.
XX
AC ABK14175;
XX DT 21-MAY-2002 (first entry)
XX DE Insulin like growth factor binding protein 11.88 cDNA probe #1.
XX KW Insulin like Growth factor binding protein 11.88; Probe; ss; cytostatic; embryo development dysmorphia; malignant tumour; gene therapy; cancer. Unidentified.
XX OS WO200212493-A1.
PN PN
XX PD 14-FEB-2002.
XX PP 11-JUN-2001; 2001WO-CN00951.
XX PR 14-JUN-2000; 2000CN-0116491.
XX PA (BIOWIN) BIOWIN GENE DEV INC SHANGHAI.
XX PI Mao Y, Xie Y;
XX DR WPI; 2002-172159/22.

XX PT Insulin like growth factor binding protein 11.88 and encoding polypeptide. The DNA and protein polynucleotide, used in diagnosis and treatment of malignant tumours -
XX PS Example 6; Page 15; 38pp; Chinese.
XX CC The invention relates to an insulin like growth factor binding protein 11.88 and the DNA sequence encoding the polypeptide. The DNA and protein are used in diagnosis and treatment of malignant tumour and dysmorphia of CC development of an embryo. This sequence represents a probe which CC hybridises to DNA which encodes the insulin like growth factor binding protein 11.88 of the invention.
XX SQ Sequence 41 BP; 5 A; 14 C; 11 G; 11 T; 0 other;

Query Match Score 21.4%; DB 24; Length 41;
Best Local Similarity 71.8%; Pred. No. 3.9e+04;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 1195 TGCTGGATGCCATTGCGACCTGCTTCATCGGGACCC 1233
Db 3 TGCTGGATGCCATTGCGACCTGCTTCATCGGGACCC 41

RESULT 9

AAF95365 ID AAF95365 standard; DNA; 21 BP.

XX ID AAF95365;

XX DT 06-JUN-2001 (first entry)

XX Human gene single nucleotide polymorphism #126.

XX Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; pulmonary embolism; paternity test; ds.

XX Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism; pulmonary embolism; paternity test; ds.

XX Homo sapiens.

XX Homo sapiens.

XX Key Variation Location/Qualifiers replace(l1,G)

XX FT *tag= a /standard_name= "single nucleotide polymorphism"

XX FT *tag= a /standard_name= "single nucleotide polymorphism"

XX WO200118250-A2.

XX PD 15-MAR-2001.

XX PP 07-SEP-2000; 2000WO-US24503.

XX PR 10-SEP-1999; 99US-0153357.

XX PR 26-JUL-2000; 2000US-022947.

XX PR 16-AUG-2000; 2000US-0225724.

XX PA (WHED) WHITEHEAD INST BIOMEDICAL RES.

XX PA (MILLI-) MILLENNIUM PHARM INC.

PI Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ, XX DR WPI; 2001-226749/23.

XX PS Examples; Page 57; 242PP; English.

XX XX Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and atherosclerosis -

XX Examples; Page 57; 242PP; English.

XX The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPs shown in the specification.

XX Sequence 21 BP; 7 A; 4 C; 9 G; 1 T; 0 other;

SQ Score 1.3%; Best Local Similarity 100.0%; Pred. No. 3.6e+04; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 608 GCAGAGGAGCCAGGAGTC 628

DB 1 GCAGAGGAGCCAGGAGTC 21

RESULT 10

AAF95367 ID AAF95367 standard; DNA; 21 BP.

XX AC AAF95367;

XX Key Variation Location/Qualifiers replace(l1,C)

XX FT *tag= a /standard_name= "single nucleotide polymorphism"

XX WO200118250-A2.

XX PD 15-MAR-2001.

XX PP 07-SEP-2000; 2000WO-US24503.

XX PR 10-SEP-1999; 99US-0153357.

XX PR 26-JUL-2000; 2000US-022947.

XX PR 16-AUG-2000; 2000US-0225724.

XX PA (WHED) WHITEHEAD INST BIOMEDICAL RES.

XX PA (MILLI-) MILLENNIUM PHARM INC.

PI Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ, XX DR WPI; 2001-226749/23.

XX PS Examples; Page 57; 242PP; English.

XX XX Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and atherosclerosis -

XX Examples; Page 57; 242PP; English.

XX The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPs shown in the specification.

XX Sequence 21 BP; 5 A; 3 C; 8 G; 5 T; 0 other;

SQ Score 1.3%; Best Local Similarity 100.0%; Pred. No. 3.6e+04; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1488 ATGACCGACTGTGTGAG 1508

DB 1 ATGACCGACTGTGTGAG 21

RESULT 11

AAF95367 ID AAF95367 standard; DNA; 21 BP.

XX AC AAF95367;

DT 06-JUN-2001 (first entry)
 XX Human gene single nucleotide polymorphism #128.
 DE Human; variant thrombospondin 1; variant thrombospondin 4 ; SNP;
 XX polymorphism; vascular disease; coronary artery disease; forensics;
 KW myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
 KW pulmonary embolism; paternity test; ds;
 XX Homo sapiens.
 XX WO200118250-A2.
 PN PD 10-JAN-2002.
 XX PR 28-JUN-2001; 2001MO-US200507.
 PR 29-JUN-2000; 2000US-0606924.
 FT /standard_name= "Single nucleotide polymorphism"
 XX PA (MAYO-) MAYO FOUND MEDICAL EDUCATION RES.
 XX PI Lennon VA, Yu Z, Kryzer TJ, Griesmann GE;
 XX DR WPI; 2002-171637/22.
 XX PT Isolated nucleic acids (N) which encode CRMP-5 polypeptides are useful
 PT in detecting anti-CRMP-5 autoantibodies in a patient with
 PT paraneoplastic neurological manifestations and neoplasm -
 XX Example 2: Page 9; 40pp; English.
 XX CC The invention relates to human collapsin response-mediator protein-5
 CC (CRMP-5) and nucleic acid molecules encoding such proteins. The
 CC presence of anti-CRMP-5 autoantibody in a biological sample is
 CC associated with paraneoplastic autoimmunity in the individual and
 CC neoplasm such as small-cell lung carcinoma, neuroblastoma and thymoma.
 CC The present sequence is human CRMP-2 (dihydropyrimidinase related
 CC protein-2, DHP-2) amplifying PCR primer used in the exemplification
 CC of the invention.
 XX SQ Sequence 21 BP; 6 A; 6 C; 5 G; 4 T; 0 other;
 XX Query Match 1.3%; Score 21; DB 24; Length 21;
 XX Best Local Similarity 100.0%; Pred. No. 3.6e+0;
 XX Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Gaps 0;
 XX Qy 505 AGATGCTTCAGTAACGA 525
 XX Db 1 AGATGCTTCAGTAACGA 21
 XX RESULT 13
 XX AAT4432 ID AAT4432 Standard; DNA; 45 BP.
 XX AC AAT42432;
 XX DT 29-JUL-1997 (first entry)
 XX GD domain region for Bax encoding DNA, amino acid residues 59-73.
 XX DE Apoptosis; follicular lymphoma; tumour; p53; antibody; ss.
 XX OS Synthetic.
 XX PN WO9635951-A1.
 XX PD 14-NOV-1996.
 XX PF 06-MAY-1996; 96WO-US06122.
 XX PR 12-MAY-1995; 95US-0440391.
 XX PA (IMMU-) IMMUNOCEN INC.
 XX PI Chittenden TD, Lutz RJ;
 XX DE Human CRMP-2 amplifying PCR primer, CRMP2-3 .

KW Human; collapsin response-mediator protein-5; CRMP-5; neoplasm;
 KW paraneoplastic autoimmunity; small-cell lung carcinoma; thymoma;
 KW neuroblastoma; CRMP-2; dihydropyrimidinase related protein-2;
 KW DRP-2; PCR primer; ss.
 XX OS Homo sapiens.
 XX PN WO200202620-A2.
 XX PD 10-JAN-2002.
 XX PR 28-JUN-2001; 2001MO-US200507.
 XX PR 29-JUN-2000; 2000US-0606924.
 FT /standard_name= "Single nucleotide polymorphism"
 XX PA (MAYO-) MAYO FOUND MEDICAL EDUCATION RES.
 XX PI Lennon VA, Yu Z, Kryzer TJ, Griesmann GE;
 XX DR WPI; 2002-171637/22.
 XX PT Isolated nucleic acids (N) which encode CRMP-5 polypeptides are useful
 PT in detecting anti-CRMP-5 autoantibodies in a patient with
 PT paraneoplastic neurological manifestations and neoplasm -
 XX Example 2: Page 9; 40pp; English.
 XX CC The invention relates to human collapsin response-mediator protein-5
 CC (CRMP-5) and nucleic acid molecules encoding such proteins. The
 CC presence of anti-CRMP-5 autoantibody in a biological sample is
 CC associated with paraneoplastic autoimmunity in the individual and
 CC neoplasm such as small-cell lung carcinoma, neuroblastoma and thymoma.
 CC The present sequence is human CRMP-2 (dihydropyrimidinase related
 CC protein-2, DHP-2) amplifying PCR primer used in the exemplification
 CC of the invention.
 XX SQ Sequence 21 BP; 6 A; 6 C; 5 G; 4 T; 0 other;
 XX Query Match 1.3%; Score 21; DB 24; Length 21;
 XX Best Local Similarity 100.0%; Pred. No. 3.6e+0;
 XX Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Gaps 0;
 XX Qy 505 AGATGCTTCAGTAACGA 525
 XX Db 1 AGATGCTTCAGTAACGA 21
 XX RESULT 13
 XX AAT4432 ID AAT4432 Standard; DNA; 45 BP.
 XX AC AAT42432;
 XX DT 29-JUL-1997 (first entry)
 XX GD domain region for Bax encoding DNA, amino acid residues 59-73.
 XX DE Apoptosis; follicular lymphoma; tumour; p53; antibody; ss.
 XX OS Synthetic.
 XX PN WO9635951-A1.
 XX PD 14-NOV-1996.
 XX PF 06-MAY-1996; 96WO-US06122.
 XX PR 12-MAY-1995; 95US-0440391.
 XX PA (IMMU-) IMMUNOCEN INC.
 XX PI Chittenden TD, Lutz RJ;
 XX DE Human CRMP-2 amplifying PCR primer, CRMP2-3 .

DR WPI; 1996-518805/51.
 DR P-PSDB; AAUW7879.
 XX Peptide(s) comprising GD domains - have similar activities to wild type Bak, and cause cellular apoptosis for treatment of viral infection.
 PR
 PT
 XX
 PS Claim 6; Page 47; 69pp; English.

JX The term GD domain refers to a protein domain first identified in Bak and shown to be essential for the interaction of Bak with Bcl-x(L) and for Bak's cell killing function; and to peptides and/or molecules capable of mimicking its structure and/or function. The present sequence encodes a GD domain corresponding to amino acid residues 59-73 of Bak. An antibody raised against a GD domain may be used to screen a cDNA expression library for clones comprising cDNA inserts encoding immunoreactive proteins. Truncated GD domain peptides have been shown to maintain the protein binding and cell killing function exhibited by wild type Bak. These molecules may induce apoptosis in tumour cell. These peptides act independently of p53 status. Bak or GD domain mimetics that inhibit Bcl-2 may be selectively toxic to certain tumours, e.g. follicular lymphoma, which depend on high levels of Bcl-2 for their continued growth and survival. GD domain mimetics may also be used for combatting viral infections by causing apoptosis of infected cells.
 XX Sequence 45 BP; 12 A; 11 C; 15 G; 7 T; 0 other;
 SQ Query Match 1..3%; Score 21; DB 17; Length 45;
 Best Local Similarity 73.0%; Pred. No. 5.2e+04;
 Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
 DB 414 TCAAGCGATGGCATANGGCATCCGGAGGAGATGGA 450
 2 TTAGCGAGTGTCTAACGATCGGGACGACTGGA 38

RESULT 15
 ID AA266703/c
 ID AA266703 standard; DNA; 47 BP.
 XX AC AA266703;
 XX DT 10-SEP-2001 (first entry)
 XX ID ABK11181 Human map-related biallelic marker SEQ ID NO:1050.
 AC XX
 AC XX Human genome; biallelic marker; high density disequilibrium map;
 KW genomic map; haplotypes; phenotype; polymorphic base; genotyping;
 KW haplotyping; hybridisation; identification; characterisation;
 KW diagnosis; single nucleotide polymorphism; SNP; db.
 XX OS Homo sapiens.
 FH Key variation
 FT Location/Qualifiers
 FT /tag= a
 FT /standard_name= "single nucleotide polymorphism"
 XX PN WO9954500-A2.
 XX PD 28-OCT-1999.
 XX PF 21-APR-1999; 99WO-IB00822.
 XX PR 21-APR-1998; 98US-0082614.
 XX PR 23-NOV-1998; 98US-0109732.
 PA (GST) GENSET.
 XX Cohen D, Blumenfeld M, Chumakov I;
 XX PI
 XX DR WPI; 2000-013267/01.
 XX PT Novel biallelic markers used to construct a high density disequilibrium map of the human genome -
 XX
 PS Claim 1; Page 454; 2745pp; English.

RESULT 14
 ID ABK11181
 ID ABK11181 standard; DNA; 45 BP.
 XX AC ABK11181;
 XX DT 05-JUN-2002 (first entry)
 XX ID DNA encoding Bak GD domain region #1 for modulating apoptosis.
 XX KW GD domain; apoptosis; interaction with Bcl-xL; cell killing function;
 KW bak; cell death regulatory molecule; autoimmune disease; cancer;
 KW bax; ds.
 OS Unidentified.
 XX Key
 FH Location/Qualifiers
 FT 1..45
 FT /*tag= a
 FT /partial
 FT /Product= "Bax GD domain region #1"
 FT /note= "This sequence lacks both start and stop codons"
 XX BN US6221615-B1.
 XX PD 24-APR-2001.
 XX PF 25-JAN-1999; 99US-0236385.
 XX PR 12-MAY-1995; 95US-0440391.
 XX PR 08-AUG-1997; 97US-0908537.
 PA (APOP-) APOPTOSIS TECHNOLOGY INC.
 XX PI Chittenden TD, Lutz RJ;
 XX PS

XX AAZ69578 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ7740 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment.

N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.

XX Sequence 47 BP; 15 A; 11 C; 11 G; 10 T; 0 other;

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Query Match      1.3%;  Score 21;  DB 21;  Length 47;
Best Local Similarity  66.7%;  Pred. No. 5.4e+04;
Matches  30;  Conservative  0;  Mismatches  15;  Indels  0;  Gaps  0;
Qy   477 ATTCCCTCCCTGTTACATGGCTTCAGATCGCTTCAGCTAA 521
          ||||| | | | | | | | | | | | | | | | | | | | | |
Db   46 AATGCTTCCCTGTTACATGGCTTCAGACTCAAGGAGGTCA 2
          ||||| | | | | | | | | | | | | | | | | | | | |

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